

REMARKS

This communication responds to the Final Office Action (*Office Action*) having an electronic notification date of September 10, 2009. Applicant has amended claims 1 and 9 merely in order to improve the form of the claims. No claims are canceled and no claims are added. Consequently, claims 1-17 remain pending in this application.

Rejection of the Claims under 35 U.S.C. §103(a)

On page 2, paragraph 3 of the *Office Action*, the Examiner rejected claims 1-6, 9-14, and 17 under 35 U.S.C. §103(a) as being unpatentable over U.S. Published Patent Application No. 2004/0049790 to Russ et al. (*Russ*), in view of U.S. Published Patent Application No. 2002/0199190 to *Su*, further in view of U.S. Published Patent Application No. 2001/0000194 to *Sequeira*. Since a *prima facie* case of obviousness has not been properly established, Applicant respectfully traverses the rejection.

The recent U.S. Supreme Court decision of *KSR v. Teleflex* provides a tripartite test to evaluate obviousness.

The rationale to support a conclusion that a claim would have been obvious is that all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, and the combination would have yielded nothing more than predictable results to one of ordinary skill in the art.¹

Applicant will show that the cited references, either singly or in combination, neither teach nor suggest all limitations of Applicant's claimed elements, with no change in the respective functions of the cited references; nor is there any substantiating evidence that the combination of the references would have yielded nothing more than predictable results. "If any of these [three] findings cannot be made, then this rationale [of combining prior art elements

¹ See *KSR International Co. v. Teleflex Inc.*, 127 S. Ct. 1727, 82 U.S.P.Q.2d 1385 (2007); see also MPEP § 2143, emphasis added.

according to known methods to yield predictable results] cannot be used to support a conclusion that the claim would have been obvious.”²

In particular, Applicant’s independent claim 1 recites, *inter alia*,

[U]sing said application streamer to create a file directory structure based on a priority for each file in the file directory structure, the priority for each file determined using information *about each file present in said textual data and said file directory structure comprising at least one data file and at least one graphical data file formatted by the application streamer to be compatible with the set-top box*;

using said application streamer to create a node tree on a broadcast streamer by mirroring said file directory structure such that each file in said file directory structure becomes a node *with a corresponding priority in said node tree* on said broadcast streamer;

allocating bandwidth and transmission frequency to each node of said node tree based *on the corresponding priority* of each said node; and

using said broadcast streamer to multiplex said nodes of said node tree with a regular broadcast stream resulting *in an interactive data stream*.³

Applicant’s other independent claim, claim 9, shares similar types of limitations with claim 1.

The Examiner relies exclusively on *Sequeira* to “disclose[] a system for broadcasting carousel data, [that] clearly teaches storing an indication of file priority with the file in the directory structure, the priority determined using information about the file ([0087]).”⁴

Although *Sequeira* does discuss that, “data in QueueSlot Field 2013 allows the data carousel to assign different priority levels to different assets,”⁵ the Examiner has failed to consider Applicant’s entire claimed element. Specifically, Applicant’s element recites, *inter alia*, “the priority for each file determined using information *about each file present in said textual data*

² MPEP § 2143, emphasis added.

³ Emphasis added.

⁴ *Office Action* at 3.

⁵ *Sequeira* at paragraph [0087].

and said file directory structure comprising at least one data file and at least one graphical data file formatted by the application streamer to be compatible with the set-top box.⁶

Sequeira, at best, discusses assigning different priority levels to different assets, nothing more. *Sequeira* therefore fails to discuss Applicant's entire claimed element in the context of at least one graphical data file formatted by the application streamer to be compatible with the set-top box. Indeed, *Sequeira* is entirely silent on point and the Examiner has failed to show any other reference or combination of references disclosing this element.

Moreover, the Examiner relies exclusively on *Russ* to teach or suggest Applicant's claimed element of "using said application streamer to create a node tree on a broadcast streamer by mirroring said file directory structure such that each file in said file directory structure becomes a node with a corresponding priority in said node tree on said broadcast streamer."⁷ Specifically, the Examiner stated that, "Each of the files in the file system [is] assigned a position for broadcast, [0031]-[0032]. The BCS server 106 broadcasts higher priority files more frequently, [0033]."⁸ However, in contrast to the Examiner's assertion, *Russ* merely discusses repeatedly broadcasting blocks based on a selection from a remote DHCT. However, the blocks are not broadcast according to any priority.

The remote DHCT 600 selects a file (block 406) from the directory index and communicates its selection to the gateway device 500. ***The BCS server 106 and/or the content servers repeatedly broadcast (block 407) the selected file, among other files,*** to the gateway device 500. The BCS server 106 may broadcast files using any of a number of possible broadcasting schemes. As a non-limiting example, among others, one scheme may involve broadcasting certain files more frequently than other files.⁹

Thus *Ross* simply discusses broadcasting both selected files, among other files, repeatedly. *Ross* is completely silent on broadcasting files based on "***a corresponding priority*** in said node tree on said broadcast streamer" as recited in Applicant's claim 1.

⁶ Emphasis added.

⁷ Office Action at 3.

⁸ *Ibid.*

⁹ *Ross* at paragraph [0033].

The Examiner further relies on *Russ* to disclose Applicant's claimed element of "allocating bandwidth and transmission frequency to each node of said node tree based on the corresponding priority of each said node." Specifically, in support of this assertion, the Examiner simply stated that, "The BCS server 106 broadcasts certain files more frequently, [0033]."¹⁰ However, as noted above, *Russ* merely discusses broadcasting both selected files, among other files, repeatedly. Applicant can find no teaching or suggestion anywhere within *Russ* of ***allocating bandwidth and transmission frequency*** to each node of said node tree ***based on the corresponding priority*** as claimed. *Russ* simply has no discussion whatsoever on allocating bandwidth and transmission frequency, much less performing the allocation based on a corresponding priority.

Additionally, the Examiner further relies on *Russ* to teach or suggest Applicant's claimed element of "using said broadcast streamer to multiplex said nodes . . . resulting ***in an interactive data stream***." Other than a mere program guide, which certainly cannot be considered interactive content, Applicant is unable to find any reference within *Russ* to an interactive data stream. Once again, *Russ* is entirely silent on point. Indeed, many of the Examiner's statements that the cited reference teaches or suggests the Applicants' claimed elements is merely conclusory with no actual support found in *Russ*. "[R]ejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness."¹¹ Although the Examiner referred to portions of *Russ*, there is no rational argument providing a legal nexus between the referenced portions and Applicant's claims.

Moreover, Applicant notes with interest that the Examiner used three references in the rejection of independent claims 1 and 9. The number of references is highly suggestive that the Examiner is using Applicant's structure as a template and selecting individual elements from each reference in a hindsight reconstruction of Applicant's claimed invention. Further, the use of individual elements from the references suggests that the Examiner is merely considering whether the differences are obvious, not whether the invention as a whole is obvious. The U.S.

¹⁰ *Office Action* at 3.

¹¹ *See In re Kahn*, 441 F. 3d 977, 988 (CA Fed. 2006) cited with approval in *KSR Int'l v. Teleflex Inc.*, 127 S. Ct. 1727, 1740-41 (2007)

Supreme Court has held that USPTO personnel may not dissect a claimed invention into discrete elements and then evaluate the elements in isolation. Instead, the claim as a whole must be considered.¹² When considered as a whole, Applicant's claimed elements are neither taught nor suggested by any combination of the cited references.

Since Applicants have shown that not all the claimed elements were known as required by KSR, either by *Ross* singly or in combination with *Su* or *Sequeira*, Applicant respectfully requests the Examiner to reconsider and withdraw the rejection under 35 U.S.C. § 103 with regard to independent claims 1 and 9. Since claims 2-6, 10-14, and 17 depend, either directly or indirectly, from claims 1 or 9, they too are allowable for at least the same reasons as the claims from which they depend. Further, each of these dependent claims may be patentable for its own limitations.

On page 5, paragraph 5 of the *Office Action*, the Examiner rejected claims 7, 8, 15, and 16 under 35 U.S.C. § 103(a) as being unpatentable over *Russ* in view of *Su* in view of *Sequeira*, as applied to claim 6 above, and further in view of U.S. Patent No. 6,618,353 to Standridge et al. (*Standridge*). However, these claims depend from claims 1 or 9 that Applicant has shown to be allowable. The cited reference to *Standridge* fails to supply the elements of the independent claims 1 and 9 that were shown above to be missing from any combination of *Ross*, *Su*, or *Sequeira*. Therefore, claims 7, 8, 15, and 16 are also allowable for at least the same reasons as the claims from which they depend. Further, each of these dependent claims may be patentable for its own limitations.

¹² See, e.g., *Diamond v. Diehr*, 450 U.S. 175, 188-89, 209 USPQ 1, 9 (1981).

CONCLUSION

Applicant respectfully submits that the claims are in condition for allowance, and notification to that effect is earnestly requested. The Examiner is invited to telephone the undersigned representative at (408) 660-2015 to facilitate prosecution of this application.

If necessary, please charge any additional fees or deficiencies, or credit any overpayments to Deposit Account No. 19-0743.

Respectfully submitted,

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CERTIFICATE UNDER 37 C.F.R. 1.8: The undersigned hereby certifies that this correspondence is being filed using the USPTO's electronic filing system EFS-Web, and is addressed to: Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 10 day of December, 2009.

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Signature

